

The Burning of a Rapid Stream in a Pipe, by
Ya. B. Zel'dovich, 23 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, No 3,
1944, pp 153-171.

Sci Trans Center
RT-1948

Scientific - Physics Jan 55 CTS/DEX

20,847

61-23334

Semenov, P.
THE FLOW OF LIQUIDS IN THIN FILMS (Tehenie
Zhalkosti v Tonkikh Sloynakh). [1961] 6p. 4 refs.
[DSIR LLU] M. 2733
Order from GTS of SLA \$1.10 61-23334

Unedited trans. of Zhurnal Tekhnicheskoi Fiziki
(USSR) 1964, v. 14, p. 4274.

DESCRIPTORS: *Liquids, Motion, *Fluid flow, Thin
films, Mathematical analysis, Differential equations,
Fluid mechanics.

The flow of liquids in thin layers in the presence of a
sharp counterflow of gas were investigated. Six dif-
ferent regimes of flow are described, the existence of
which were demonstrated experimentally. The bound-
ary conditions are applied to the equations of flow, for
the calculation of gravity forces, the horizontal gra-
(Mechanics-Hydraulics, TT, v. 6, no. 12) (over)

I. Semenov, P.
II. DSIR LLU M. 2733

Office of Technical Services

On the Theory of Dipole Excitation, by M.
Leontovich and M. Levin, 29 pp.

RUSSIAN, per, Zhur Tekh Fiz SSSR, Vol XIV, 1974
No 9, pp 481-506

SLA R-1951

Sci

Jul 58

68,315

On the Vortex: Sound From Rotating Body, by E. Ye.
Yudin, 13 pp.

RUSSIAN, ~~ver~~, Zhur Tseli Fiz, Vol XIV, No 11, 1964,
pp 561-567.

Solar Wind Center RT-527

10,992

Scientific - ~~Engineering~~ Aeronautics
STS/LEK

id Controlled Magnetron and Some of its Applications in the Range of Medium Ultra-short and centimeter Waves, by S. Ya. Braude and A. M. Anchenko.

SSIAN, per, Zhur Tekh Fiz, Vol XIV, 1944,
611-622.

AEC Tr

16,414

Scientific - Electronics

Nov 1949 CT3

Zh Tekh Fiz Vol 14, page 630-7 (1944)

Quantum Discontinuity of Light and Discreteness of
Sensations, by S. Ya. Lifshits.

AEC Trans (avail. Brookhaven)

CHERTAVSKIY, A. K.

ZHURNAL TEKH. FIZIKI, vol 14, No 9, 1944

Effect of Lubricant on Physical Condition of Surfaces
Obtained in Rolling or Drawing of Metals

Brutcher Tr 2156, \$4.75

(FDD 19264)

Compensation of Radio Disturbances, by Ya. L. Alpert,
S. M. Rytov, 34 pp.

RUSSIAN, ed. for, Zhur Tekh Fiz, Vol XIV, No 12,
Moscow/Leningrad, Dec 1944, pp 730-748.

CIA/FDD/U-5658

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Sci - Electronics

Mar 54 CTS

11,718

Excitation of Resonance by Air Flow, by
D. I. Blokhintsev.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XV, No 1/2,
1945.

Navy Tr 1384/T 270

Sci - Physics
Mar 1957 CTS/dex

45, 46

AF 107-975

Temperature Dependence of the Resistance of Selenium
Rectifiers for Reversed Current, by D. N. Nasledov.

English translation.

RUSSIAN, no per, Zhur Tekh Fiz, [USSR], Vol. XV, No 4, 5,
1955, pp 206-211.

AEC Tr 1426

SR

Scientific - Physics, electronics, selenium rectifiers

Nov 52 CTS/DEX

62-25576

Blat, M. I., Bresler, S. E., and Ryabinin, Yu. N.
A NEW METHOD OF STORING LIQUIFIED GASES,
tr. by Donald C. Rich and George P. Hill. 13 June 62
[13]p. 1 ref. ACOM Trans. nr 26-62.
Order from OTS or SLA \$1.60 62-25576

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1945,
v. 15, no. 12, p. 916-923.

DESCRIPTORS: *Liquefied gases, *Storage, *Con-
tainers, *Gels, Foams, Insulating materials,
Adsorbents.

Measurements of the mean coefficient of heat con-
ductivity of aerogel powder were conducted at tem-
peratures from -114.5 to -195.8°C and with various
pressures of the air which filled the pores of the aéro-
gel in the interval from 2×10^{-6} to 760 mm of mercury.
It was shown that thermal radiation is retarded by
(Engineering-Chemical, [T]... [F]... (over)

- I. Blat, M. I.
- II. Bresler, S. E.
- III. Ryabinin, Yu. N.
- IV. ACOM Trans. nr 26-62.
- V. Army Ordnance Missile
Command, Redstone
Arsenal, Ala.

Office of Technical Services

Effect of Impurities in Selenium on the Electrical
Properties of Selenium Rectifiers, by H. A. Penin,
K. V. Astakhov.

Full translation.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVI, No 2, 1946,
pp 199-206.

AEC Tr 1616

USSR
Scientific - Electronics

Jul 53 CTR

4013

PRINCIPLES OF A METHOD FOR STUDYING THERMAL
CONDITIONS IN SOIL, BY A. F. CHUDNOVSKIY,
7 PP.

RUSSIAN, PER, ZHUR TEKH FLZ, VOL XVI,
NO 2, 1946, PP 243-248. 9082377

AEC TR-1778

SCI - PHYS

NOV 61

173,197

The Contact Method of Measuring the Thermal
Properties of Solid Insulators, by A. F.
Chudnovskiy, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 2,
1946, pp 249-254.

SLA Tr R-865

Sci - Physics

52,305

Sep 57

L.I. Levintov

A source of light for the spectrum analysis of
metalloids in hard bodies.

RUSSIAN per, Zhurnal Tekhnicheskoi Fiziki, 1946,
Vol XVI, No 3,

Sci Museum Lib No 50/3075

Wetting and Strength of Adhesion, by P. P.
Kobako, P. I. Murel, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, 1946,
pp 277-282. 672432

Corps of Engr
Snow Ice & Permafrost
Tr 59

Eci- Phys, Geophys

Jan 59

79,257

The Nature of an Underscan Echo, by V. S.
Anastasevich.

RUSSIAN, no per, Zbur Tekh Fiz, Vol XVI, No 3,
1946, pp 371-373.

AE: Tr 556

Sci Tr Center

DRB T.40.R.

Scientific - Geophysics

Aug 1951 CTB

12.772

Critical velocities of ultracentrifuges, by V. I. Bekplov, 6 pp.

RUSSIAN, part, Zhur, Tekh Fiz, Vol 16, No 4, 1946.

Sci Museum Lib No 51/1687 - London

See Also U.S. Nat. Adv. Comm. for Aeronautics
tech. mem. 1272(3).

Resonance Sound Absorber With Yielding Wall, by
S. N. Rzhavkin, 26 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol. XVI, No. 4, 1946,
pp 381-394. (See United States: National Advisory
Committee for Aeronautics.)

Technical memorandum 1273.

~~SECRET~~

5.1 Museum Lib No 51/2491-6000

See for Sound 1273

Behavior of fast moving flow of compressible gas
in cylindrical pipe in presence of cooling by
G. A. Varshavskiy, 8 pp
RUSSIAN per - Zhurnal Tekhnicheskoy Fiziki, 1946,
vol 16 no 4, pp 413 - 416
Sci Museum Lib no 52/0132

RF-274

The Effect of the Speed of the Resistance of Metals to
Plastic Deformation, by L. D. Sokolov, 9 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVI, 1946, pp
437-442.

AEC Tr 3086
NACA N 11158

Sci. - Phys

Nov 57

~~55,754~~
A-11336

Theory of Fatigue Strength in the Complex Stressed State, by N. N. Afans'ev, 18 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 4, 1946, pp 443-454.

Sci Trans Center RT-904

Physics
Scientific - ~~Engineering~~
CTS/DEA

14, 079

Mechanical Properties of Non-Ferrous Alloys
under Static Load at Low Temperatures, by V. I.
Kostenets, 8 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 5, 1946,
pp 527-538. (loan copy only)

Sci

Aug 58

SLA R-1847

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63-14490

I. Kostenets, V. L.
II. Ivanchenko, A. M.
III. Title: Solder

Kostenets, V. I. and Ivanchenko, A. M.
MECHANICAL PROPERTIES OF METALS AND
MELTS WITH STATIC LOAD AT LOW TEMPER-
ATURES (-196° and -253° C). IV. SOLDER. [1963] 8p.
Order from GTS or SLA \$1.10 63-14490

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR)
1946, v. 16, no. 5, p. 551-552.

DESCRIPTORS: *Metals, *Soldering alloys, *Silver
solders, *Lead alloys, Statics, *Low temperature
research, *Mechanical properties, Measurement.

This communication contains the results of measure-
ments at +17, -196° and -253° C of the temporary
tensile strength σ_B , residual expansion-- δ , and
lateral contraction-- ψ of nine types of soft solders
with a lead content of 10% to 75% and a tin content of
90% to 25%, and of two types of hard silver solders.
(Author)
(Metallurgy, IT, v. 10, no. 2)

Office of Technical Services

Chernov, L. A.
FLOW AND DENSITY OF ACOUSTICAL ENERGY IN
A MOVING MEDIUM, tr. by B. W. Kuvshinov.
24 Apr 62, 6p. 2 refs. APL/JHU TG 230-T291.
Order from OTS \$0.50 62-11681

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1946,
v. 16, no. 6, p. 733-735.

DESCRIPTORS: *Acoustics, *Sound, Propagation,
Density, Velocity, Pressure, Geometry, Numerical
analysis.

New formulas are derived for flow and density of acous-
tical energy in geometric approximation, depending
only on the potential of acoustical velocity and not con-
taining acoustical pressure.

(Physics--Acoustics, TT, v. 8, no. 4)

62-11681

- I. Chernov, L. A.
- II. APL/JHU TG-230-T291
- III. Applied Physics Lab.,
Johns Hopkins U.,
Silver Spring, Md.
- IV. Contract NOrd-7386

Office of Technical Services

On Sintering (In the Solid Phase) by B. Ya. Pines.
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol 16, No 6, 1946, pp 737-743.
*AEC

Sci/Mech, Civil Indist G
Marine Mater
Jan 67

The Optical and Electrical Properties of Silver Films
on Glass, by P. M. Morozov, M. M. Butslov.
RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 8,
1946, pp 857-878.

ERDL, Ft Belvoir T-1719
(AD - 600225)

OTS - π - 64 - 15585

Sci Museum 49/452⁷
Great Britain

Sci - Phys
Oct 64

267,624

(710 23/5)

Continuing Self-Inflicted Qualifications in the American
 Book International Circuit, by K. P. Gendowich,
 6 pp.

Full 22

RUSSIAN, no per, State Tech File, Vol XVI, p. 8,
 Moscow, Aug 1946, in 241-244.

CIA/FDD 3-6-60

39, 747

USSR

Sol - Shchekolov, police circuit

Out 25

Zhur Tekh Fiz Vol 16, page 1021-30 (1946)

Generation of Power Electrical Oscillations in the
Low Pressure Discharge. by V. L. Grancvski and T. A.
Suetin.

AEC TRANS (avail. Brookhaven)

Measurement of the Thermal Conductivity of
Lead Sulfide, by Y. A. Dunayev, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No
10, 1946, pp 1101-1104.

SLA H-1806

Sci

Jul 58

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The Application of Single Crystals to the Study
of the Structure of Tempered Martensite, by
G. Kurdymov, L. Lysak.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 12,
1946, pp 1307-1318.

Sci Tr Center

RT-3109

30,545

Sci - Physics

Jan 1956/CTS No 77

The Texture of Nickel and Copper Electrodeposits,
by S. M. Kochergin.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 11,
1946, pp 1325-1336.

Sci Tr Center
RT-3110

Sci - Physics
Jan 1956 CTS No 77

30,552

The Formation of Supersaturated Vapour in the
Process of Its Condensation on a Surface, by
A. G. Amelin, 32pp
RUSSIAN, per, Zhurnal Tekh Fiz, Vol 16, 1946,
No 12, pp 1409-1426
OTS TT-64-19977

Sci - Eng
June 67

329,467

Changes in Physical Properties of Cold-
Drawn Brass During Annealing, by G. I. Epifanov,

RUSSIAN, per, Zhur Takh. Fiz, Vol. XVI, No 12,
1946, pp 1475-1482.

23,166

Butcher Tr No 3404
\$6.90

Scientific - Min/Metals

Apr
May 55 CMB

The Theory of Detonation in Gases, by Ya. B. Zeldovich,
24 pp.

RUSSIAN, per, Izv. Akad. Nauk SSSR, Vol XVII, No 1, 1947,
pp 3-26.

TIL/T5144

Sci - Tech

Nov 62

217,627

62-20345

I. Renne, V. T.

Renne, V. T.
RATE OF SELF-DISCHARGE AS A CRITERION FOR
ESTIMATING THE VALUE OF A PAPER CONDENSER
WITH D. C. POTENTIAL. 3 Nov 47, 5p. (figs. re's.
omitted).

Order from OTS or SLA \$1.10

62-20345

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1947,
v. 17, no. 1, p. 37-42.

DESCRIPTORS: *Paper capacitors, Direct current,
Measurement, Dielectrics, *Electric potential, Electri-
cal conductance, Ionization, Electric discharges.

Investigation was made of the phenomenon of self-dis-
charge of paper condensers as well as a suggestion to
apply the rate of self-discharge as a criterion for the
evaluation of the quality of these condensers when
(Physics--Electricity, TT, v. 9, no. 10)

Office of Technical Services

ZHURN TEKHN. FIZ. Vol XVII, No 1

Jan 1947

4 pp

"On the Mechanism of the Electrification of Certain
Artificial Aerosols (Smoke)"

A. M. Furman

Avail at Brookhaven
See Guide to Russ Sci Per Lit,
Vol 1, No 7, page 51

2T42

✓
The Phenomena of Accommodation of Magnetic
Permeability of Magnetite, by A. M. Vyukhina, et
al, 26 pp.

RUSSIAN, ind per, Zhur Tekh Fiz, Vol XVII, No 2,
1947, pp 129-142.

Sci Tr Center RT-2889

Scientific - Physics
Jan 56 CTS/dex

32, 214

The Synchronization of a Tube Oscillator by
a Harmonic of the Fundamental Frequency,
by O. A. Tkhorzhevski, B. K. Shembel'

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, 1947,
pp 215-230.

AEC Tr 1118

Scientific - Physics

PAGOROTSEYKH, D. M.

Zhurnal Tekhnicheskoi Fiziki, vol. 17, No. 3,
figures, 900 words; 1947.

Ductile, Brittle, and "Border" Cracks in Impact
Test Pieces.

Butcher Trans, Order Nol 2151.

7

On the Chemical Composition of Antimony-Cesium
Layers, by N. S. Khlebnikov, 12 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz. 1947, Vol. XVII, No 3,
pp 333-340.

Sci. Mus. Lib No 52/3254

Scientific - Physics

27 December 1952

On the Photoelectric Properties of Antimony-Caesium Cathodes in Transmitted Light as a Function of the Layer Thickness, by D. M. Khorosh, 13 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1947, Vol 17, No 3, pp 341-348.

Sci Mus Lib No 52/3257

Scientific - Physics

27 December 1952

ZHUR TEKH FIZ Vol XVII, No 4

Apr 1947

8 pp

"The Possible Power of Electrical Viscous Waves"

M. A. Levitskaya

Available at Brookhaven
See Guide to Russ Sci Per Lit,
Vol 2, No 3, Page 118

11T10

On the Use of the Geiger-Muller Counter for the
Chemical Analysis of Small Contents of Elements in
Various Materials, by N. B. Borisov, Ya. M. Fogel.

RUSSEIAN, PER, Zhurn tekhn fiz., Vol XVII, No 5, 1947.

Brutcher Tr No 2015

Scientific - Chemistry

\$8.90

14,698

Molecular Theory of Friction, by, V. S. Shchedrov,
7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 1, USSR,
pp 537 - 542, 1947.

NRL 167

CIA 9877 23761

A Study of the Dependence of the Resistance of Metal
and Amorphous Substances to Plastic Deformation on
the Speed of Deformation and the Temperature, by L. D.
Sokolov, 7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVII, 1947, pp
543-548.

AEC Tr 3075

Sci - Phys

Nov 57

55, 756

Resistance

**Electrical ~~XXXXXXXXXXXX~~ Iron-Chromium-Carbon
Alloys at High Temperatures, by M. E. Blanter.**

**RUSSIAN, Zhur Tekh Fiz, Vol XVII, No 5, 1947,
pp 549-556.**

Brutcher Tr No 2738

14,937

Scientific - Min/Metals

\$5.60

Borisov, N. D. and Fogel, Ya. M.
DE TOEPASSING VAN EEN GEIGER-MÜLLER TEL-
LER VOOR DE CHEMISCHE ANALYSE VAN VER-
SCHILLENDE ELEMENTEN BIJ LAGE CONCENTRA-
TIES (Use of the Geiger-Müller Counter in the Chemi-
cal Analysis of Small Concentrations of Elements in
Various Substances). 20p. 12 refs. MTWL: 59.
(text in Dutch).
Order from CTS or EIC \$1.55

61-17657

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1947,
v. 17, p. 590-592.

DESCRIPTORS: Radiation counters, *Geiger counters,
*Chemical analysis, Chemical elements, *X-ray
spectroscopy.

61-17657

- I. Borisov, N. D.
- II. Fogel, Ya. M.
- III. MTWL-59
- IV. Stichting Moedijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

The Occurrence of Detonation in
Cases in Rough Tubes, by K. I. Shchelkin. UN CL

RUSSIAN, per, Zhur Tekh Fiz, No 5,
1947, pp 613-1618.

TIL 4946

Sci - Phys
Mar 60

5/11/50 T 2113

111,870

The Factors Influencing the Intensity of Spectral Lines
in Flames During Spectral Analysis, by V. G.
Aleksyova, S. L. Mandel'shtam, 28 pp.

RUSSTAN, 1947, Zhur Tekh Fiz, Vol XVIII, No 7, 1947,
pp 765. ~~9216104~~

AEC-Tr-6071

Doc - RDP
Box 64

246,310

Influence of the Electric Circuit on Oscillations
in the ABC Discharge at Low Pressure, by T. A.
Suetin, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, 1947,
pp 809-818.

ABR Tr 2621

Sci - Electricity, physics
Nov 56 CTS

40, 480

Orientation of Cementite in Tempered Carbon Steel,
by I. V. Isaichev

RUSSIAN, per, Zhur Tekh Fiz, Vol. XVII, No 7, 1947,
pp 835-838.

Brutcher Tr 3213

Scientific - Minerals/Metals
CTS/DEK

Price \$2.80

9293

ZHUR TEKH FIZ

Vol XVII, No 9, 1947, 17 pp

"Emission of an Oxide Cathode"

S. V. Ptitsyn

Available at Brookhaven

See Guide to Russ Sci Per Lit, Vol 2, No 3, P. 118

AMC F-TS-7046-RE

40182

On Diffusion Constants, by S. Gerzricken,
I. Deghtyar.

RUSSIAN, per, Zhur Tekh Fiz, Vol. XVII, No 8,
1947, pp 871-880.

DSIR LLU M. 1666

Sci - Phys

Oct 61

170, 753

The Influence of a Third Element on Diffusion in
the Solid State, by S. Gerzricken, I. Deghtyar.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 8,
1947, pp 881-890.

DSIR LLU M. 1665

Sci - Phys

170, 752

Oct 61

ZHUR TEKH FIZ

Vol XVII, No 9, 1947, 4 pp

"Auto-electronic Emission of Complex Semiconducting Cathodes"

N. D. Morgulis

done by AMC

~~copy in file safe~~

40T90

The Temperature Dependence of Ice Viscosity,
by V. V. Laurov, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 9,
1947, pp 1027-1034.

Sci Tr Center
RT-2228

Scientific - Physics

CTS 69/Jun 55

24, 714

ZHUR TEKH FIZ Vol XVII, No 10, 1977 Oct 1947

6pp

"Phenomenon of Improving Semiconductors by Current
Carriers Under the Effect of Contact Field"

V. I. Lyushenko, A. M. Pavlenko

AEC/BNL/tr-123

TT-4000
49T81

LEVITAS, D. N.
MIGULIN, V. V.

The Operation of a Blocking Oscillator,

RUSSIAN, Zhur Tekh Fiz, Vol XVII, No 10, 1947, pp 1171 -
1180.

AEC Tr 567

ZHUR TEKH FIZ Vol XVII, No 10

Oct 1947

"Surface Ionization of Barium on Tungsten"

5¹/₄ pp

G. A. Morozov

AEC/BNL/tr-125

AEC Tr-98

AEC Trans

List dated 20 Jan 50

49T82

IVENSEN, V. A.

Zhurnal tekhn. fiziki, vol. 17, No. 11, 8 figures,
12 tables, 5600 words; 1947.

Investigation of Process of Density Increase in the
Sintering of Single-Phase Metal Powder Compacts.
Part 1.

Brutcher Trans, Order No. 2119, \$8.40.

Threshold of Colour Contrast at Constant
Brightness, by S. O. Maizel.
RUSSIAN, ~~PER~~, Zh. Tekh. Fiz., Vol 17, No 11,
1947, pp 1253-1268.
NLL 5828.4F (11692)

Sci - Phys
Aug. 67
Left

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On the Excitation of Waveguides-I, by A. A. Samarskiy,
A. N. Tikhonov, 24 pp.
RUSSIAN, per, Zh Tekh Fiz. Vol 17, 1947, pp 1283-1296.
AEC/BNL-Tr-300-69

Sci/Elec
Feb 70

402,546

Diffusion of Carbon in Austenite, by M. B. Blanter.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 11, 1947,
pp 1331-1340.

Bratcher Tr No 2263

Scientific - Misc/Metals

14,934

Excitation of Waveguides. II(1), by A. A. Samarskiy,
A. N. Tikhonov, 16 pp.
RUSSIAN, per. Zh Tekh Fiz, Vol 17, No 12, 1947,
pp 1431-1440.
AEC/BNL-Tr-308-69

Sci/Elec
Feb 70

402,547

On the Analysis of the Noise of a Moving
Aircraft, by K. A. Velzhanina, S. N. Rzhavkin,
8 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 12,
1947, pp 1488-1490. Encl to IR 1711-56.

AF01N-1A1

~~AP01N-1A1~~ 1036007

AF

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Sci - Aeronautics

Lawe Governing the Consequence of Carbon in Steel
Carbon Steel During Isothermal Tempering, by S. Z.
Bokstein.

HURSTON, R. R. STEEL TREATING, Vol XVII, No 12, 1947,
pp 1517-1520.

Bratcher, R. R.

Scientific - Minerals/Metals
CWS/DEK

Price \$5.90

11, 388

Influence of Grain Size Upon Diffusion of Nitrogen,
by A. G. Andreeva, I. E. Kontorovich, A. A.
Sovaalova.

Full translation.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 12, 1947,
pp 1521-1526.

Brutcher Tr 3010

Scientific - Nitriding, steel

The Molten Metal Boil in the Bath of a Steel
Refining Furnace, by V. S. Kocho,
RUSSIAN, per. Zh. Tekhn. Fiz., Vol 47, No 12,
1947, pp 1527-1530.
BISI 9097

Jun 71

SHEVELEV, A. K.

Zhurnal Tekhnicheskoi Fiziki, vol. 18, No. 1, 1
figure, 5 tables, 1900 words; 1948.

Influence of Boron upon Structure of High Speed
Steel.

Brutcher, Trans. Order No. 2138, \$3.35

ZHUR TEKH FIZ Vol XVIII, No 1

Jan 1948

"Thermoelectric Study of Certain Processes Taking
Place in Alloys: I" 11 pp

Yu. M. Margolin

Brookhaven Nat'l Lab
Vol 2, No 9 Guide

44T68

Effect of Degree of Deformation on the Relation
Between Stress and Speed, by L. D. Sokolov, 7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVIII, 1948,
pp 93-97.

ABC Tr 3079

Sci - Phys

Nov 57

55, 757

YAKOVLEVA, E. S.
YAKUTOVICH, M. V.

Zhurnal Tekhn. Fiziki, vol. 18, No. 1, 1
figure, 2000 words; 1948. *CIA D 9111222*

Development of cracks in steel during
Martensite Transformation.

Brutcher, Trans. Order No. 2134, \$3.00

NEMNOV, S. A.

Zhurnal Tekhnicheskoi Fiziki, vol. 18, No. 2,
3300 words; 2 tables; 1948.

Character of Interatomic Binding Forces in
Phases Formed by Transitional Metals with Light
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Mar 1948

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DESCRIPTORS: *Greases, Calcium compounds, Vis-
cosity, Creep, Elasticity, Plasticity, Stresses

A method is described and results are given of a study
of the elasto-plastic properties of solids. The prop-
erties considered included: the character of the elastic
deformations under constant and variable loads; the
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